

NH Public Utilities Commission

REC Aggregator Portal

New Users [CLICK HERE](#) to setup your account for this form. Creating an account enables you to partially complete the form and return later to finish it or to make changes after the form is submitted. Be sure to create your account **BEFORE** entering information into the form, or the information will be lost.

Existing Users [CLICK HERE](#)

Basic Information

Who is submitting this request?

Aggregator

Aggregator Batch Number

KE060516

Are you registered in NH

- ☒ Yes
☐ No

Aggregator name

Knollwood Energy

NH Reg #

Aggregator Email

karenton@knollwoodenergy.com

Other Aggregator name

Other aggregator email address

Facility Name

Facility Owner Name

Arthur Kim

Facility Owner email

artkimca@gmail.com

Owner Phone

603-397-5315

Facility Address

3 Rocky Ln

Facility Town/City

Durham

Facility State

NH

Facility Zip

03824

Is the facility address the same as the owner's mailing address

- ☒ Yes
☐ No

Mailing Address

Mailing Town/City

Mailing State

Mailing Zip

Primary Contact

Karen Tenneson

Primary Contact

Facility Primary Contact

karenton@knollwoodenergy.com

Other Email Address

Facility Information

Class

Utility

Other Utility Name

To obtain a GIS ID contact:

James Webb

408 517 2174

jwebb@apx.com

GIS ID (include "NON")

Date of Initial Operation

Facility Operator Name, if applicable

Panel Make #1

Panel Model

Panel Quantity

Panel Rated Output

More Panel types?

- ☒ No
☐ Yes

Panel Make #2

Panel Model

Panel Quantity

Panel Rated Output

More Panel types?

- ☒ No
☐ Yes

Panel Make #3

Panel Model

Panel Quantity

Panel Rated Output

System capacity based on panels

Inverter Make

Inverter Quantity

Add'l Inverter Quantity

Additional Inverter Make

Rated Output - Primary Inverter

215

Rated Output - Additional Inverter

System capacity based on single inverter make

1935

System capacity based on two inverter types

System capacity in kW as stated on the interconnection agreement

1.935

Revenue Grade Meter Make

Revenue Grade GIS Approved Meter

HIALEAH

Other Meter Name

Was this facility installed directly by the customer (no electrician involved)?

- ☐ Yes
☒ No

Electrician Name & Number

Megin Ulin 13139M

Other Electrician Name & Number

Installation Company

ReVision Energy

Other Installation Company Name

Other Inst. Company Address

Other Inst. Company City

Other Inst. Company State

Other Inst. Company Zip

Equipment Vendor Company Name

Independent Monitor Name & Company

Paul Button - Energy Audits Unlimited

Other Monitor Name and Company

Is the installer also the equipment supplier?

- ☒ Yes
☐ No

Equipment Vendor

Please attach your completed interconnection agreement including Exhibit B.

https://fs30.formsite.com/jan1947/files/f-5-99-6937160_DByEhVKr_N2385A_Kim_PV_-_Certificate_of_

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor or a designated representative.

A revenue quality meter (meeting ANSI C-12.1-2008 for installations up to and including 10 kW, or ANSI C12.16 or better for installations greater than 10kW up to 1 mW) is used to measure the electricity generated.

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

Please attach additional document here

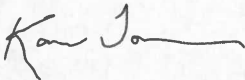
https://fs30.formsite.com/jan1947/files/f-5-168-6937160_Zo1DQmCw_Arthur_Kim_contract_part_3_-_s

Please attach additional document here

https://fs30.formsite.com/jan1947/files/f-5-173-6937160_LICq26s9_N2385A_Kim_PV_-_Processed_Ap

Aggregator statement of accuracy

Sign your name using a mouse or, if you are using a touch-screen device, a stylus or other pointer.



Print Name

Karen Tonnesen

Date Signed

06/05/2016

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

☐ Check if owner-installed

Customer or Company Name (print): Arthur Kim
Contact Person, if Company: _____
Mailing Address: 3 Rocky Lane
City: Durham State: New Hampshire Zip Code: 03824 05824
Telephone (Daytime): 603-397-5315 (Evening): 603-397-5315
Facsimile Number: _____ E-Mail Address: artkimca@gmail.com

Address of Facility (if different from above): _____
City: _____ State: _____ Zip Code: _____
Generation Vendor: Harmony Energy Works Incorporated Contact Person: George Horrocks
I hereby certify that the system hardware is in compliance with Puc 900.

Vendor Signature: _____

Date: 12/19/2011

Electrical Contractor's Name (if appropriate): Paul Miner / Miner Electric
Mailing Address: 9 Tansy Lane
City: Stratham State: New Hampshire Zip Code: 03885
Telephone (Daytime): 603-772-6807 (Evening): 603-772-6807
Facsimile Number: _____ E-Mail Address: minerelectric@comcast.net
License number: 3948M

Date of approval to install Facility granted by the Company: _____ Installation Date: _____

Application ID number: #N2385

Inspection:

The system has been installed and inspected in compliance with the local Building/Electrical Code of

Durham / Strafford

(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection): John R. Tasker Sr.

Name (printed): Tom Johnson

John R. Tasker Sr.

Date: 12/20/2011

Customer Certification:

I hereby certify that, to the best of my knowledge, all the information contained in this Interconnection Notice is true and correct. This system has been installed and shall be operated in compliance with applicable electrical standards. Also, the initial start up test required by Puc 905.04 has been successfully completed.

Customer Signature: [Signature] Date: 12/19/2011

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

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AUG 13 2014

SESD

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information

Check if owner-installed

Customer or Company Name (print): Arthur Kim
Contact Person, if Company:
Mailing Address: 3 Rocky Lane
City: Durham State: NH Zip Code: 03824
Telephone (Daytime): 603-397-5315 (Evening):
Facsimile Number: E-Mail Address: arthur.kim@oracle.com

Address of Facility (if different from above):
City: State: Zip Code:

Generation Vendor: REVISION ENERGY, LLC Contact Person: SARA BOGUE

I hereby certify that the system hardware is in compliance with Psc 900.

Vendor Signature: Sara Bogue Date: 7/11/2014

Electrical Contractor's Name (if appropriate): ReVision Energy
Mailing Address: 7 Commercial Drive
City: Exeter State: NH Zip Code: 03833
Telephone (Daytime): 603-679-1222 (Evening):
Facsimile Number: E-Mail Address: sbogue@revisionenergy.com
License number: 1313954

Date of approval to install Facility granted by the Company: 7/1/2014 Installation Date:

Application ID number: N2385A

Inspection

The system has been installed and inspected in compliance with the local Building/Electrical Code of

Durham / Stratford
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection):

Name (printed): John R. Tasker Sr.

Date: 8-7-14

Customer Certification

I hereby certify that, to the best of my knowledge, all the information contained in this Interconnection Notice is true and correct. This system has been installed and shall be operated in compliance with applicable electrical standards. Also, the initial start up test required by Psc 905.04 has been successfully completed.

Customer Signature: _____

Date: _____

New Hampshire PUC REC Certification Application Owner Statements

The information provided on this application for New Hampshire Renewable Energy Certificate eligibility is accurate to the best of my knowledge and I authorize Knollwood Energy to act on my behalf in filing said application.

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor, or a designated representative.

A revenue quality meter is used to measure the electricity generated.

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

Arthur Kim

Printed Name of signature owner

Arthur Kim
Arthur Kim (May 4, 2016)

Signature of system owner

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

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JUN 27 2014

Simplified Process Interconnection Application and Service Agreement **SESD**

PSNH Application Project ID#: N 2385 A

~~This is an expansion to an existing PV system installed by others~~

Contact Information:

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): Arthur Kim

Contact Person, if Company: _____

Mailing Address: 3 Rocky Lane

City: Durham State: NH Zip Code: 03824

Telephone (Daytime): 603-397-5315 (Evening): _____

Facsimile Number: _____ E-Mail Address: arthur.kim@oracle.com

Alternative Contact Information (e.g., System installation contractor or coordinating company, if appropriate):

Name: ReVision Energy, LLC contact Heather Fournier

Mailing Address: 7 Commercial Drive

City: Exeter State: NH Zip Code: 03833

Telephone (Daytime): 603-679-1777 (Evening): _____

Facsimile Number: _____ E-Mail Address: heather@revisionenergy.com

Electrical Contractor Contact Information (if appropriate):

Name: Same as Alternative Contract

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Facility Site Information:

Facility (Site) Address: 3 Rocky Lane

City: Durham State: NH Zip Code: 03824

Electric

Service Company: PSNH Account Number: 56778045054 ✓ Meter Number: 361465902 ✓
~~W10000548~~

Account and Meter Number: Please consult an actual PSNH electric bill and enter the correct Account Number and Meter Number on this application. If the facility is to be installed in a new location, please provide the PSNH Work Request number.

PSNH Work Request # _____

Non-Default' Service Customers Only:

Competitive Electric

Energy Supply Company: _____ Account Number: _____

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

Facility Machine Information:

Generator/ Inverter Manufacturer: Enphase ✓ Model Name & Number: M215 ✓ Quantity: 9 ✓
Nameplate Rating: 0.215 (kW) 240 (kVA) (AC Volts) Phase: Single ☒ Three ☐
Nameplate Rating: *The AC Nameplate rating of the individual inverter.*
System Design Capacity: 1.935 (kW) (kVA) Battery Backup: Yes ☐ No ☒
System Design Capacity: *The system total of the inverter AC ratings. If there are multiple inverters installed in the system, this is the sum of the AC nameplate ratings of all inverters.*
Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☒ No ☐
Prime Mover: Photovoltaic ☒ Reciprocating Engine ☐ Fuel Cell ☐ Turbine ☐ Other _____
Energy Source: Solar ☒ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐ Fuel Oil ☐ Other _____

Inverter-based Generating Facilities:

UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)
☒ Yes ☐ No
The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use With Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. *Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.*

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'
☒ Yes ☐ No
Location of External Manual Disconnect Switch: _____

Project Estimated Install Date: July 2014 Project Estimated In-Service Date: August 2014

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the **Terms and Conditions for S**

Signature: Arthur Kim
Arthur Kim (June 18, 2014)

Email: arthur.kim@oracle.com

Customer Signature: _____ Date: June 18, 2014

Please include a one-line and/or three-line diagram of proposed installation. Diagram must indicate the generator connection point in relation to the customer service panel and the PSNH meter socket. Applications without such a diagram may be returned.

For PSNH Use Only

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes ☐ No ☒ To be Determined ☐

Company Signature: Umesh Patel Title: SR. ENGINEER Date: 6-30-2014

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA
Terms and Conditions for Simplified Process Interconnections**

Company waives inspection/Witness Test: Yes ☒ No ☐

Date of inspection/Witness Test: _____

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its Application once the Approval to Install the Facility has been signed by the Company. Such Approval relates only to the PSNH and Puc 900 electrical interconnection requirements, and does not convey any permissions or rights associated with permits, code enforcement, easements, rights of way, set back, or other physical construction issues.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
 - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
 - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
 - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
6. **Metering and Billing.** All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
 - 6.1. **Interconnecting Customer Provides:** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
 - 6.2. **Company Installs Meter.** The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
7. **Indemnification.** Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
8. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
9. **Termination.** This Agreement may be terminated under the following conditions:
 - 9.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
 - 9.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
 - 9.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
10. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
11. **Interconnection Standard.** These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

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AUG 10 2011
SESD

Simplified Process Interconnection Application and Service Agreement

Contact Information:

Date Prepared: 7/27/2011

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): Arthur Kim

Contact Person, if Company:

Mailing Address: 3 Rocky Lane

City: Durham

State: NH

Zip Code: 03824

Telephone (Daytime): 603 - 397 - 5315

(Evening):

Facsimile Number:

E-Mail Address: artkimca@gmail.com

Alternative Contact Information (e.g., system installation contractor or coordinating company, if appropriate):

Name: George Horrocks / Harmony Energy Works Incorporated

Mailing Address: 10 Gale Road

City: Hampton

State: NH

Zip Code: 03842

Telephone (Daytime): 603 - 926 - 3366

(Evening): 603 - 512 - 3377

Facsimile Number:

E-Mail Address: george.horrocks@harmonyenergyworks.com

Electrical Contractor Contact Information (if appropriate):

Name: Paul Miner / Miner Electric

Telephone: 603 - 772 - 6807

Mailing Address: 9 Tansy Lane

City: Stratham

State: NH

Zip Code: 03885

Facility Information:

Address of Facility: 3 Rocky Lane

City: Durham

State: NH

Zip Code: 03824

Electric Service Company: PSNH

Account Number: 56778045054

Meter Number: G98182917

Inverter Manufacturer: Solectria Renewables

Model Name and Number: PVI 4000

Quantity: 1

Nameplate Rating: 4.9 (kW)

(kVA) 240

(AC Volts)

Single ☒ or Three ☐ Phase

System Design Capacity: 4.9 (kVA)

(kVA)

Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☒ No ☐

Prime Mover: Photovoltaic ☒ Reciprocating Engine ☐ Fuel Cell ☐ Turbine ☐ Other ☐

Energy Source: Solar ☒ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐ Fuel Oil ☐ Other ☐

UL 1741.1 (IEEE 1547.1) Listed? Yes ☒ No ☐

Estimated Install Date: 10/15/2011

Estimated In-Service Date: 11/15/2011

Interconnecting Customer Signature

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms and Conditions on the following page.

Customer Signature: *Arthur Kim*

Title: Homeowner

Date: 8/1/11

Please attach any documentation provided by the inverter manufacturer describing the inverter's UL 1741 listing.

Approval to Install Facility (For Company use only)

Installation of the Facility is approved contingent upon the terms and conditions of this Agreement, and agreement to any system modifications, if required (Are system modifications required? Yes ☐ No ☒ To be Determined ☐)

Company Signature: *[Signature]*

Title: Associate Eng.

Date: 8/8/11

Company waives Inspection/Witness Test? Yes ☒ No ☐